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ENVIRONMENTAL CLEANUP



5129 N. Shirley St. Suite 100, Ruston, WA 98407

January 15, 2012

Mr. Kevin L. Rochlin
Remedial Project Manager
U.S. Environmental Protection Agency
Region 10
1200 Sixth Avenue, ECL-111
Seattle, WA 98101

RE: Monthly Report: No. 187, December 2011
Operable Unit No. 02 - Asarco Tacoma Smelter Site

Dear Mr. Rochlin:

Point Ruston is submitting this monthly report per the requirements of paragraph 48 of the Consent Decree for the above referenced site. Point Ruston will continue to provide monthly reports to EPA for the site organized in the same manner as previous reports prepared by Asarco to follow item (a) through (g) of this paragraph.

If you have any questions, please call me at (253) 752-2185, extension 236.

Sincerely,

Loren Cohen
Manager of Legal Affairs

Attachment (2 copies)

cc: Steve Teel - Washington Department of Ecology
Evan Griffiths - CH2MHill (2 copies)
Leslie Ann Rose - Citizens for a Healthy Bay

USEPA SF



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Monthly Report 187, December 2011
Operable Unit 02
Asarco Tacoma Smelter Site

A. *Actions taken to achieve compliance with the Consent Decree during the previous month.*

1. Met with EPA on December 2, for a coordination meeting.
2. Temporary Cap and Interim Permanent Cap and Site Wide Storm Water Plan undergoing review for re-submittal to EPA for approval.
3. Continue remedial action associated with Master Infrastructure CMP, including JUT construction, preparation for retaining wall on Ruston Way, final prep and grading of roadways, waterlines, incorporation of RA design elements into retaining wall and abandonment of existing storm water system and other underground public utilities.
4. Completed construction of Shoreline Armoring RA along entirety of Asarco site shoreline.
5. Erosion control BMP's were maintained after storm events, including replacement of silt fences and exclusion zone fence. On-going site maintenance and monitoring continues, including all requirements under the Site Wide Construction Health and Safety Plan.
6. Continued weekly site-inspection reports (see attached).
7. Maintained clean work area and road.
8. Remedial Action activities continued.
9. Training activities include the following:
 - Site Safety Orientations (Clean Zone) was held for personnel of the following companies:
 - i. Three (3) M.S. Construction employees
 - ii. Four (4) Olson Brothers employees
 - iii. Two (2) City of Tacoma employees
 - iv. Eighteen (18) Cal-Portland employees
 - v. One (1) County Line employee
 - vi. Five (5) Point Ruston employees
 - vii. One (1) Costco employee
 - viii. Three (3) ACF West employees
 - ix. Two (2) Labor Systems Job Center employees
 - x. One (1) Bronco Transportation Systems employee
 - xi. Two (2) National Construction Rentals employees
 - xii. Two (2) DM Kelly employees
 - xiii. One (1) Fence Specialist employee
 - xiv. Three (3) Peninsula Concrete employees
 - xv. One (1) Manor Hardware employee
 - xvi. Four (4) Teufel Landscape employees
 - xvii. One (1) Stegin Concrete Construction employee
 - xviii. One (1) Brundage-Bone Concrete Pumping employee
 - xix. Ten (10) King Concrete employees
 - xx. One (1) Jerry Griffith Trucking employee
 - xxi. One (1) Hesler Brothers Transfer employee
 - xxii. One (1) Roadrunner Transportation Services employee
 - xxiii. One (1) Cascade Testing Laboratory employee

Monthly Report 187, December 2011

Operable Unit 02

Asarco Tacoma Smelter Site

- xxiv. Fourteen (14) Miles Resources employees
- xxv. One (1) Pacific Plumbing Supply employee
- xxvi. Two (2) Gordy Bagnell Trucking employees
- Site Specific Safety Training (Exclusion Zone) was held for personnel of the following companies:
 - i. One (1) Gordy Bagnell Trucking employee
 - ii. Three (3) Teufel Landscape employees
 - iii. Three (3) Octavio Landscaping employees
- HAZWOPER Basic training was verified or completed by personnel of the following companies:
 - i. One (1) Gordy Bagnell Trucking employee
 - ii. Three (3) Teufel Landscape employees
 - iii. Three (3) Octavio Landscaping employees
- HAZWOPER annual retraining was verified or completed by personnel of the following companies:
 - i. One (1) EPA employee
- Other relevant monitoring or training was verified or completed by personnel of the following companies:
 - i. One (1) Olson Brothers employee (Arsenic Analysis)
 - ii. Two (2) Point Ruston employees (Arsenic Analysis)
 - iii. One (1) Gordy Bagnell Trucking employee (Arsenic Analysis)
 - iv. Three (3) Teufel Landscape employees (Arsenic Analysis)

B. Summary of sampling, tests and all other data received or generated by Point Ruston in the previous month.

1. Outfall activities including the following:

Section 2.3 of the Final Statement of Work (SOW) for Remedial Design and Remedial Action – Exhibit F to the Second Amendment requires Point Ruston to continue outfall monitoring. Outfalls will be monitored to determine if the monthly average surface water outfall concentrations for arsenic, copper, and zinc exceed 0.5 ppm at the North and South site outfalls until they are abandoned.

Weekly composite samples will be collected at each outfall during the construction season. During the winter season, outfall samples will be collected every other month. Asarco began the following schedule in May of 2003, which Point Ruston will continue to implement: weekly composite samples will be collected from April-October, and in December and February.

Monthly Report 187, December 2011

Operable Unit 02

Asarco Tacoma Smelter Site

In addition to the North and South Outfalls, Point Ruston monitors an existing, upland station near the southeastern end of the car tunnel. This monitoring station is designated OSW2. Samples were collected by Point Ruston from the outfall locations on December 12th, 19th, 27th, and January 3rd. Results from samples collected are attached. There were no exceedances.

2. Point Ruston collects OCF leachate in a 5,000-gallon polyethylene tank for offsite shipment and disposal. LCRS and LDCRS volumes are monitored weekly in accordance with the draft OCF OMMP. LCRS volumes currently average approximately 100 gallons per day on the LCRS. Leachate sampled on December 21, 2011 with result of 4.06 ppm (As). To be shipped as non-hazardous; shipment pending scheduling.
3. Point Ruston performs perimeter air monitoring at three locations on the site: NW Corner of OCF, OCF Vault #1 (upper vault), and at the South Gate. On December 29th the South Gate monitoring location was moved eighty-five (85) feet northeast maintaining a parallel distance from Ruston Way and the property line. At the same time the monitoring location on the NW Corner of the OCF was moved fifty (50) feet northeast bringing it to about sixty-five (65) feet from the Bennett Street property line. These changes were required as a result of relocating the south job office and in anticipation of impending remediation work along the southern shoreline. With EPA approval, Point Ruston has suspended perimeter air monitoring during wet weather events that cause wet site conditions. Perimeter air monitoring will resume when the weather allows the site to dry out. Results for samples collected November 27th through December 23rd are attached. Results for the remainder of December are pending laboratory analysis and will be submitted with the January 2012 report. There were no exceedances.
4. Point Ruston performs personal air monitoring in accordance with WAC 296-848-20060(1) & WAC 296-155-17609(1)(a) to determine if the airborne concentrations of arsenic and lead exceed the PEL. Personal air monitoring (Exposure Evaluations) was not required in December.

C. *Work Plans and other deliverables completed and submitted during the previous month.*

1. Plans and Documents included the following:
Point Ruston Grade and Site Cap (Hydrometrics 2008) – received EPA approval
Temporary Cap Plan – received conditional EPA approval Point Ruston submitted updated plan for Interim Permanent Cap. Comment received back from EPA, and responses are currently underway, tentative re-

Monthly Report 187, December 2011

Operable Unit 02

Asarco Tacoma Smelter Site

submittal scheduled for late January 2012. Construction and compaction of subgrade delayed, pending weather and site conditions; awaiting final EPA approval of design. Point Ruston is drafting O&M Plan for the maintenance of the Interim Permanent Cap.

Site Wide Storm Water Plan -- submittal to EPA for review and approval (Hydrometrics 2011), received interim EPA approval, awaiting formal and final approval of Interim Permanent Cap Plan.

Construction Health & Safety Plan (CH&SP) – updated plan to be submitted for EPA review and approval in January.

BNSF Excavation & RA Plan – received EPA approval; work completed and approved. BN has issued a Quit Claim Deed to Point Ruston and this property to become part of Ruston Way shoulder and potential street side parking.

Sequence of Development and Occupancy Plan (SDOP) – Point Ruston continuing edits and restructuring – tentatively schedule for submittal in January.

Ruston Way SAP – EPA approved, work completed.

Operations Maintenance, and Monitoring Plan (OMMP) – Point Ruston continuing edits and restructuring (submittal anticipated in early January) – tentatively schedule for submittal in January.

CC&Rs and HOA OMMP budget – Point Ruston continuing edits and restructuring. Removing environmental specific conditions and placing into stand-alone Environmental CC&R document (submittal anticipated in January).

Phase 1 Construction Management Plan (CMP) –EPA approval; edits and restructuring for re-submittal to include updated RA for site improvements; construction to continue through summer 2011 (submittal anticipated in January).

Master Infrastructure CMP – EPA approved, work ongoing.

Waterwalk CMP- Point Ruston drafting ongoing; to be submitted for phased construction and 1st phase of Waterwalk anticipated to begin construction in 2011 (submittal anticipated in January).

Biological Assessment South Outfall Construction (Edwards Street)/ BA South Outfall Flow (Edwards Street) – EPA reviewing on going; submitted to NMFS, NOAA, & USFWS for review. EPA has provided approval of in-water construction of Edwards. Flow analysis to be complete ASAP in order to allow continued progress on MICMP.

BA Shoreline Stabilization – EPA approved. Work completed December 2011.

2. Remedial Action included the following tasks:

- OCF construction activities:
 - Maintained leachate collection system.
 - Inspected storm drain system, vaults and cover.

Monthly Report 187, December 2011

Operable Unit 02

Asarco Tacoma Smelter Site

- Stack Hill construction activities:
 - Maintained erosion and surface water controls; Maintained site perimeter fence and signage at the north end of Stack Hill.
 - Subgrade samplings of Stack Hill face to determine extent of cap and RA.

- Site-wide remediation/redevelopment activities:
 - Continued surface water controls
 - Maintained onsite haul roads and stockpiles
 - Maintained erosion and surface water controls; Inspected and repaired silt fence. Ruston Way closed to public traffic to accommodate MICMP construction of ROW and other public utilities. Ruston side of Tunnel filled with Baltimore St. road prism clean ballast. Liner along Town of Ruston ROW being placed; roadway concrete and asphalt to begin mid-winter; Q1 construction completion scheduled.
 - Continued site-wide dust monitoring and control through site and access road watering, as needed. (None during wet weather events.)
 - Maintained air-monitoring program per CH&SP
 - Completed shoreline armoring BA, construction began, and trenching and armoring construction on going.
 - **Effective immediately**, and until further notice, the main access gate to the Point Ruston site will be located at 54th & Bennett Street, Ruston WA. The physical address is 5397 N. Bennett Street, Ruston, WA 98407. The south gate (Ruston Way) is only accessible for emergency access or as necessary for MICMP/LID construction as the construction of concrete curbs have physically limited access through this point of the site.

D. Actions scheduled for the next six weeks.

1. Begin MICMP construction of retaining wall and concrete curbs on public ROW Ruston Way, paving of public street, Underground Power and Data (Qwest, Comcast, Click, etc.) components to be completed with JUT excavations to be backfilled. MICMP completion expected Q1-2012; Tacoma and Point Ruston completing design of Waterwalk in anticipation of culmination of PSA Waterwalk property. Grand opening celebration of Ruston Way scheduled for April 21, 2012 with the inaugural running of the *Ruston Way 5k Road Race*.

2. Complete any necessary punch work of the shoreline armoring. Apply for Certificate of Completion for this element of the RA, per the Consent Decree.

Monthly Report 187, December 2011

Operable Unit 02:

Asarco Tacoma Smelter Site

3. Finalize design and approvals of Interim Permanent Cap, finish site wide mass grading, and begin construction of liner (construction delayed due to wet weather and unworkable site conditions).
4. Continue CH&SP air monitoring during RA activities.
5. Continue to work on plans associated with Institutional Controls for the site, including Sequence of Development and Occupancy Plan, CC&Rs, and other HOA related documents as required per the Consent Decree, including responding to EPA comments.
6. Continue to work on response to EPA comments on the Operation, Maintenance and Monitoring Plan ("OMMP")
7. Continue discussions with Metro Parks Tacoma on extension of Yacht Club Road and closure of Waterfront Drive, and offsite environmental liabilities on Peninsula Park/Slag Peninsula property; coordinate with EPA on claims to Asarco trust account.
8. Continue discussions with DNR and State of Washington regarding offsite liabilities for sediments and other aquatic land.

The following Remedial Action tasks are planned to continue:

RA Monitoring:

- a. Outfall sampling (weekly composite samples) during scheduled months
- b. Air monitoring during remedial action activities

OCF OMMP activities:

- a. Continue collection of leachate for offsite disposal
- b. Continue monitoring of leachate volumes

Stack Hill construction activities:

- a. Erosion controls and site maintenance
- b. Continue home construction and sales & marketing efforts

Site-wide construction activities:

- a. Continue surface water controls
- b. Maintain roads and stockpiles onsite
- c. Maintain erosion controls
- d. Construction activities for mass grading and Master Infrastructure
- e. Complete site wide grading and placement of onsite stockpiles and soils in advance of subgrade construction and compaction.

E. Percentage completion, unresolved delays encountered or anticipated that may affect schedule, and efforts to mitigate delays.

1. Point Ruston is continuing to work with the City of Tacoma & Town of Ruston on work associated with the Master Infrastructure CMP and Phase I

Monthly Report 187, December 2011

Operable Unit 02

Asarco Tacoma Smelter Site

CMP; LID construction is ongoing as is Phase 1 building framing to continue vertical, tentatively with one-floor framed per 10 working days, and first occupancy tentatively scheduled for Fall 2012. The clean laydown area associated with the Phase 1 CMP underwent preparation and routine maintenance after a major storm event, as follows:

- a. Clean laydown area excavated 6" waste soils from laydown area
- b. Placed & compacted 6" pit-run from shoreline
- c. Placed & compacted 2" lift of recycled concrete from W. Dickson.
- d. Placed 2-4" lift of 2-4" quarry spalls.
- e. Capped laydown area with 2-4" rock. Samples obtained are pending laboratory analysis.

F. Modifications to work plans or schedules proposed to or approved by EPA.

1. The Second Amendment to the Consent Decree was finalized and the sale of the property to Point Ruston LLC completed on October 31, 2006.
2. Point Ruston submitted a Request for Schedule Modification to Attachment 1 of the Final Statement of Work on February 9, 2010. EPA approved a SOW Schedule Modification on March 24, 2011 deleting the 50% cap completion date, in exchange for an agreement by Point Ruston to complete an interim temporary cap on the site.

G. Activities undertaken to support Community Relations Plan during the previous month and planned for the next four weeks.

1. Point Ruston continues to work in conjunction with staff from the Town of Ruston and City of Tacoma regarding development plans, which incorporate remediation components for the site.
2. Point Ruston continues negotiations, design and conclusion of the sale of Waterwalk property to the City of Tacoma.
3. Point Ruston continues to meet with the Town of Ruston, City of Tacoma and MetroParks to address operation, maintenance, and monitoring issues at the site.
4. Point Ruston continues discussions with DNR on cost recovery claims and other aquatic land cleanup issues.
5. Point Ruston continues to discuss off site RA of Metro Parks Peninsula, and the Town of Ruston's tunnel.



Weekly Site Inspection Report No. 2011-1204

Week of: 12/4 – 10, 2011

Inspector: Tim Rusher

Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

INSPECTION AREA	OVERAL CONDITION			NEED REPAIR?		COMMENTS/OBSERVATIONS
Gates:						
49 th & Ruston Wy	(G)	F	P	Y	(N)	
Peninsula	(G)	F	P	Y	(N)	
52 nd Street	(G)	F	P	Y	(N)	
54 th Street (electric)	(G)	F	P	Y	(N)	
Signage:						
Gates	(G)	F	P	Y	(N)	
Perimeter	(G)	F	P	Y	(N)	
Safety	(G)	F	P	Y	(N)	
(Other)	G	F	P	Y	N	
Public Streets:						
Ruston Way	G	F	P	Y	N	CLOSED
51 st & Gallagher	G	F	P	Y	N	CLOSED
Stack Hill	(G)	F	P	Y	(N)	
(Other)	G	F	P	Y	N	
BMPs:						
Berms	(G)	F	P	Y	(N)	
Waddles	(G)	F	P	Y	(N)	
Silt Fence	(G)	F	P	Y	(N)	
(Other)	G	F	P	Y	N	
Strom drains clean:						
Lower Site	(G)	F	P	Y	(N)	
Stack Hill	(G)	F	P	Y	(N)	
Stockpiles:						
Envirotac II	G	F	P	Y	N	NONE
Plastic	G	F	P	Y	N	NONE
Packed	(G)	F	P	Y	(N)	
Grass	G	F	P	Y	N	NONE
Dust:						
Traffic areas	(G)	F	P	Y	(N)	
Excavation area	(G)	F	P	Y	(N)	
(Other)	G	F	P	Y	N	
Fencing:						
Site Perimeter	(G)	F	P	Y	(N)	
Zone Separation	(G)	F	P	Y	(N)	
(Other)	G	F	P	Y	N	
Cameras:						
Lower Site	G	(F)	P	Y	(N)	
(Other)	G	(F)	P	Y	(N)	

G=Good F=Fair P=Poor Y=Yes N=No

Weekly Site Inspection Report No. 2011-1204
Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

INSPECTION AREA	OVERAL CONDITION			NEED REPAIR?		COMMENTS/OBSERVATIONS
Health & Safety Plans:						IN PROGRESS
Site Superintendant	G	F	P	Y	N	
Construction Super.	G	F	P	Y	N	
Other	G	F	P	Y	N	

G=Good F=Fair P=Poor Y=Yes N=No

Misc. notes:

Air Monitoring:

Day of Week	Hi-Vol Y/N	Personal Y/N	Air Monitoring Notes
Sun 4	N	N	NO RA ACTIVITY
Mon 5	Y	N	POUR SLAB IN 2A STORAGE (FINAL CAP); J.U.T. LINER; J.U.T. RUSTON
Tue 6	Y	N	J.U.T. LINER ON YACHT CLUB; WATER MAIN THRUST BLOCKS
Wed 7	Y	N	J.U.T. PIPING ON YACHT CLUB; J.U.T. RUSTON
Thu 8	Y	N	EXCAVATE/PEEL FOR BLOCK WALL @ GROUND; J.U.T. RUSTON
Fri 9	Y	N	J.U.T. RUSTON; FILTER RAS RUSTON WAY; SHORELINE ARM.
Sat 10	N	N	NO RA ACTIVITY

WEATHER:

Day of Week	(LOW/HIGH)	Summary of Weather Conditions
Sun 4	34°/44°	NNE WIND 3MPH/GUST 12MPH, NO PRECIPITATION
Mon 5	31°/40°	EAST WIND 1MPH/GUST 6MPH, NO PRECIPITATION
Tue 6	31°/39°	SOUTH WIND 1MPH/GUST 8MPH, NO PRECIPITATION
Wed 7	34°/41°	SE WIND 2MPH/GUST 7MPH, NO PRECIPITATION
Thu 8	34°/40°	NE WIND 3MPH/GUST 11MPH, NO PRECIPITATION
Fri 9	30°/39°	SE WIND 1MPH/GUST 6MPH, NO PRECIPITATION
Sat 10	30°/38°	SSW WIND 2MPH/GUST 8MPH, PRECIP. 0.03" (AFTERNOON)

I certify that this report is true, accurate and complete, to the best of my knowledge and belief.

DATE: 12/12/2011

SIGNED: 

TITLE:

Construction Oversight / Health & Safety Officer



Weekly Site Inspection Report No. 2011-1211

Week of: 12/11 – 17, 2011

Inspector: Tim Rusher

Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

INSPECTION AREA	OVERALL CONDITION			NEED REPAIR?		COMMENTS/OBSERVATIONS
Gates:						
49 th & Ruston Wy	(G)	F	P	Y	(N)	
Peninsula	(G)	F	P	Y	(N)	
52 nd Street	(G)	F	P	Y	(N)	
54 th Street (electric)	(G)	F	P	Y	(N)	
Signage:						
Gates	(G)	F	P	Y	(N)	
Perimeter	(G)	F	P	Y	(N)	
Safety	(G)	F	P	Y	(N)	
(Other)	G	F	P	Y	N	
Public Streets:						
Ruston Way	G	F	P	Y	N	Closed
51 st & Gallagher	G	F	P	Y	N	Closed
Stack Hill	(G)	F	P	Y	(N)	
(Other)	G	F	P	Y	N	
BMPs:						
Berms	(G)	F	P	Y	(N)	
Waddles	(G)	F	P	Y	(N)	
Silt Fence	(G)	F	P	Y	(N)	
(Other)	G	F	P	Y	N	
Strom drains clean:						
Lower Site	(G)	F	P	Y	(N)	
Stack Hill	(G)	F	P	Y	(N)	
Stockpiles:						
Envirotac II	G	F	P	Y	N	NONE
Plastic	G	F	P	Y	N	NONE
Packed	(G)	F	P	Y	(N)	
Grass	G	F	P	Y	N	NONE
Dust:						
Traffic areas	(G)	F	P	Y	(N)	
Excavation area	(G)	F	P	Y	(N)	
(Other)	G	F	P	Y	N	
Fencing:						
Site Perimeter	(G)	F	P	Y	(N)	
Zone Separation	(G)	F	P	Y	(N)	
(Other)	G	F	P	Y	N	
Cameras:						
Lower Site	G	(F)	P	Y	(N)	
(Other)	G	(F)	P	Y	(N)	

G=Good F=Fair P=Poor Y=Yes N=No

Weekly Site Inspection Report No. 2011-1211
Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

INSPECTION AREA	OVERALL CONDITION			NEED REPAIR?		COMMENTS/OBSERVATIONS
Health & Safety Plans:						REVISIONS IN PROGRESS
Site Superintendant	G	F	P	Y	N	
Construction Super.	G	F	P	Y	N	
Other	G	F	P	Y	N	

G=Good F=Fair P=Poor Y=Yes N=No

Misc. notes:

Air Monitoring:

Day of Week	Hi-Vol Y/N	Personal Y/N	Air Monitoring Notes
Sun 11	N	N	NO RA ACTIVITY
Mon 12	Y	N	J.U.T. RUSTON + YACHT CLUB; SHORELINE ARMORING
Tue 13	Y	N	" " ; SDMH2A
Wed 14	Y	N	STREET LIGHT TRENCHING RUSTON WAY; SHORELINE ARMORING; SDMH2A
Thu 15	Y	N	DECONSTRUCTION SHORELINE BLOCK (NAN);
Fri 16	Y	N	BARGE OFFLOADING; SHORELINE ARMORING; GRADING YACHT CLUB
Sat 17	N	N	NO RA ACTIVITY

WEATHER:

Day of Week	(LOW/HIGH)	Summary of Weather Conditions
Sun 11	35°/41° NE	WIND 3MPH/GUST 12MPH, PRECIP. 0.04" (MORNING)
Mon 12	30°/40° NE	WIND 3MPH/GUST 10MPH, NO PRECIPITATION
Tue 13	28°/39° SE	WIND 1MPH/GUST 4MPH, NO PRECIPITATION
Wed 14	34°/39° SSW	WIND 2MPH/GUST 7MPH, PRECIP. 0.01" (midnight)
Thu 15	37°/43° SOUTH	WIND 1MPH/GUST 10MPH, PRECIP. 0.06" (SCATTERED)
Fri 16	38°/50° SSW	WIND 2MPH/GUST 10MPH, NO PRECIPITATION
Sat 17	33°/50° SSW	WIND 3MPH/GUST 9MPH, NO PRECIPITATION

I certify that this report is true, accurate and complete, to the best of my knowledge and belief

DATE: 12/19/2011

SIGNED:  TIM R.

TITLE: Construction Oversight / Health & Safety Officer



Weekly Site Inspection Report No. 2011-1218

Week of: 12/18 - 24, 2011

Inspector: Tim Rusher

Operable Unit 02 - Asarco Tacoma Smelter Site (Point Ruston)

INSPECTION AREA	OVERAL CONDITION			NEED REPAIR?		COMMENTS/OBSERVATIONS
Gates:						
49 th & Ruston Wy	G	F	P	Y	N	
Peninsula	G	F	P	Y	N	
52 nd Street	G	F	P	Y	N	
54 th Street (electric)	G	F	P	Y	N	
Signage:						
Gates	G	F	P	Y	N	
Perimeter	G	F	P	Y	N	
Safety	G	F	P	Y	N	
(Other)	G	F	P	Y	N	
Public Streets:						
Ruston Way	G	F	P	Y	N	CLOSED CLOSED
51 st & Gallagher	G	F	P	Y	N	
Stack Hill	G	F	P	Y	N	
(Other)	G	F	P	Y	N	
BMPs:						
Berms	G	F	P	Y	N	
Waddles	G	F	P	Y	N	
Silt Fence	G	F	P	Y	N	
(Other)	G	F	P	Y	N	
Strom drains clean:						
Lower Site	G	F	P	Y	N	
Stack Hill	G	F	P	Y	N	
Stockpiles:						
Envirotac II	G	F	P	Y	N	NONE
Plastic	G	F	P	Y	N	NONE
Packed	G	F	P	Y	N	
Grass	G	F	P	Y	N	NONE
Dust:						
Traffic areas	G	F	P	Y	N	
Excavation area	G	F	P	Y	N	
(Other)	G	F	P	Y	N	
Fencing:						
Site Perimeter	G	F	P	Y	N	
Zone Separation	G	F	P	Y	N	
(Other)	G	F	P	Y	N	
Cameras:						
Lower Site	G	F	P	Y	N	
(Other)	G	F	P	Y	N	

G=Good F=Fair P=Poor Y=Yes N=No

Weekly Site Inspection Report No. 2011-1218
Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

INSPECTION AREA	OVERAL CONDITION			NEED REPAIR?		COMMENTS/OBSERVATIONS
Health & Safety Plans:						REVISION IN PROGRESS
Site Superintendant	G	F	P	Y	N	
Construction Super.	G	F	P	Y	N	
Other	G	F	P	Y	N	

G=Good F=Fair P=Poor Y=Yes N=No

Misc. notes:

Air Monitoring:

Day of Week	Hi-Vol Y/N	Personal Y/N	Air Monitoring Notes
Sun 18	N	N	NO RA ACTIVITY
Mon 19	Y	N	51ST BARGE OFFLOADING; WATER LINE; BALTIMORE GRADING; SHORELINE ARMORING
Tue 20	Y	N	BARGE OFFLOADING; SHORELINE ARMORING; REINSTALL OCF TANK
Wed 21	Y	N	BARGE OFFLOADING; SHORELINE ARMORING; GRADING BALTIMORE
Thu 22	Y	N	SHORELINE ARMORING; GRADING ON RUSTON WAY & ROUNDABOUT
Fri 23	Y	N	RUSTON WAY GRADING;
Sat 24	N	N	

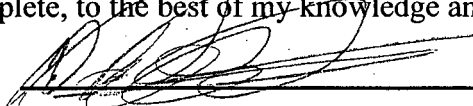
WEATHER:

Day of Week	(LOW/HIGH)	Summary of Weather Conditions
Sun 18	39°/46°:SLO	WIND 2MPH/GUST 11MPH, PRECIP. 0.05" (SCATTERED)
Mon 19	38°/45°:SSW	WIND 2MPH/GUST 8MPH, NO PRECIPITATION
Tue 20	38°/43°:SSW	WIND 3MPH/GUST 9MPH, NO PRECIPITATION
Wed 21	32°/44°:WSW	WIND 1MPH/GUST 10MPH, PRECIP. 0.01" (MORNING)
Thu 22	28°/55°:SSW	WIND 2MPH/GUST 7MPH, PRECIP. 0.01" (MORNING)
Fri 23	32°/50°:SSW	WIND 4MPH/GUST 9MPH, PRECIP. 0.02" (MORNING)
Sat 24	43°/52°:SSW	WIND 2MPH/GUST 7MPH, PRECIP. 0.02" (MORNING & PM)

I certify that this report is true, accurate and complete, to the best of my knowledge and belief.

DATE: 1/3/12 12/26/2011

SIGNED:

 TIM R.

TITLE:

Construction Oversight / Health & Safety Officer



Weekly Site Inspection Report No.

2011-1225

Week of: 12/25 - 31, 2011

Inspector: Tim Rusher

Operable Unit 02 - Asarco Tacoma Smelter Site (Point Ruston)

INSPECTION AREA	OVERAL CONDITION			NEED REPAIR?		COMMENTS/OBSERVATIONS
Gates:						
49 th & Ruston Wy	(G)	F	P	Y	(N)	
Peninsula	(G)	F	P	Y	(N)	
52 nd Street	(G)	F	P	Y	(N)	
54 th Street (electric)	(G)	F	P	Y	(N)	
Signage:						
Gates	(G)	F	P	Y	(N)	
Perimeter	(G)	F	P	Y	(N)	
Safety	(G)	F	P	Y	(N)	
(Other)	G	F	P	Y	N	
Public Streets:						
Ruston Way	(G)	F	P	Y	(N)	(CLOSED)
51 st & Gallagher	(G)	F	P	Y	(N)	(CLOSED)
Stack Hill	(G)	F	P	Y	(N)	
(Other)	G	F	P	Y	N	
BMPs:						
Berms	(G)	F	P	Y	(N)	
Waddles	(G)	F	P	Y	(N)	
Silt Fence	(G)	F	P	Y	(N)	
(Other)	G	F	P	Y	N	
Strom drains clean:						
Lower Site	(G)	F	P	Y	(N)	
Stack Hill	(G)	F	P	Y	(N)	
Stockpiles:						
Envirotac II	G	F	P	Y	N	NONE
Plastic	G	F	P	Y	N	NONE
Packed	(G)	F	P	Y	(N)	
Grass	G	F	P	Y	N	NONE
Dust:						
Traffic areas	(G)	F	P	Y	(N)	
Excavation area	(G)	F	P	Y	(N)	
(Other)	G	F	P	Y	N	
Fencing:						
Site Perimeter	(G)	F	P	Y	(N)	
Zone Separation	(G)	F	P	Y	(N)	
(Other)	G	F	P	Y	N	
Cameras:						
Lower Site	G	(F)	P	Y	(N)	
(Other)	G	(F)	P	Y	(N)	

G=Good F=Fair P=Poor Y=Yes N=No

Weekly Site Inspection Report No. 2011-1225
Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

INSPECTION AREA	OVERALL CONDITION			NEED REPAIR?		COMMENTS/OBSERVATIONS
Health & Safety Plans:						REVISIONS IN PROGRESS
Site Superintendant	G	F	P	Y	N	
Construction Super.	G	F	P	Y	N	
Other	G	F	P	Y	N	

G=Good F=Fair P=Poor Y=Yes N=No

Misc. notes: 12/29/11 MOVED KEITH'S JOB OFFICE WITH HI-VOL FROM SOUTH END TO OCF NW CORNER. MOVED HI-VOL + STANDS FROM OCF NW CORNER TO S END NEXT TO NURSERY NEAR S. GATE LOCATION.

Air Monitoring:

Day of Week	Hi-Vol Y/N	Personal Y/N	Air Monitoring Notes
Sun 25	N	N	NO RA ACTIVITY
Mon 26	N	N	NO RA ACTIVITY
Tue 27	Y	N	BARGE OFFLOADING; JUT TO 2A + 2B
Wed 28	Y	N	JUT + WATER TO 2A + 2B; TRENCH SPOILS TO POND
Thu 29	Y	N	MOVE JOB TRAILER FR. S. GATE TO OCF (SWAMP HI-VOLS)
Fri 30	Y	N	UTILITY TRENCH WORK TO 2A + 2B
Sat 31	N	N	NO RA ACTIVITY

WEATHER:

Day of Week	(LOW/HIGH)	Summary of Weather Conditions
Sun 25	39°/49°:SSW	WIND 7MPH/GUST 21MPH, PRECIP. 0.13" (AFTERNOON)
Mon 26	38°/42°:SSW	WIND 4MPH/GUST 10MPH, PRECIP. 0.08" (EVE)
Tue 27	39°/50°:SSW	WIND 4MPH/GUST 17MPH, PRECIP. 1.10" (ALL DAY SCATTERED)
Wed 28	47°/53°:SSW	WIND 9MPH/GUST 17MPH, PRECIP. 0.56" (ALL DAY SCATTERED)
Thu 29	43°/49°:SSW	WIND 5MPH/GUST 16MPH, PRECIP. 0.43" (AFTERNOON - ALL NIGHT)
Fri 30	38°/48°:SSW	WIND 10MPH/GUST 15MPH, PRECIP. 0.09" (MORNING)
Sat 31	31°/41°:NE	WIND 2MPH/GUST 8MPH, NO PRECIPITATION

I certify that this report is true, accurate and complete, to the best of my knowledge and belief.

DATE: 1/3/12 4/2/2011

SIGNED:

T.M.R.

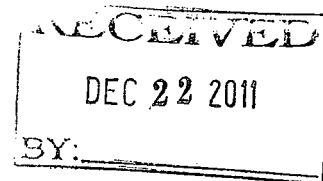
TITLE:

Construction Oversight / Health & Safety Officer



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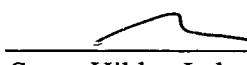
12/20/2011

Point Ruston
5219 N. Shirley St.,
Suite 100
Tacoma, WA 98407

Project: Air Monitoring (hi-vol)
Date Received: 12/05/2011
Spectra Project: 2011120078

<u>Client ID</u>	<u>Spectra #</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>	<u>Matrix</u>	<u>Date Sampled</u>
8552502	1	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	11/28/2011
8552502	1	Lead	< 0.05	µg/m3	SW846 6010B	Filter	11/28/2011
8552501	2	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	11/28/2011
8552501	2	Lead	< 0.05	µg/m3	SW846 6010B	Filter	11/28/2011
8552100	3	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	11/28/2011
8552100	3	Lead	< 0.05	µg/m3	SW846 6010B	Filter	11/28/2011
8552099	4	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	11/29/2011
8552099	4	Lead	< 0.05	µg/m3	SW846 6010B	Filter	11/29/2011
8552098	5	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	11/29/2011
8552098	5	Lead	< 0.05	µg/m3	SW846 6010B	Filter	11/29/2011
8552097	6	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	11/29/2011
8552097	6	Lead	< 0.05	µg/m3	SW846 6010B	Filter	11/29/2011
8552095	7	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	11/30/2011
8552095	7	Lead	< 0.05	µg/m3	SW846 6010B	Filter	11/30/2011
8552094	8	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	11/30/2011
8552094	8	Lead	< 0.05	µg/m3	SW846 6010B	Filter	11/30/2011

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Steve Hibbs, Laboratory Manager

a8/scj



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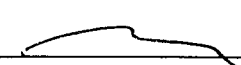
12/20/2011

Point Ruston
5219 N. Shirley St.,
Suite 100
Tacoma, WA 98407

Project: Air Monitoring (hi-vol)
Date Received: 12/05/2011
Spectra Project: 2011120078

<u>Client ID</u>	<u>Spectra #</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>	<u>Matrix</u>	<u>Date Sampled</u>
8552093	9	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	11/30/2011
8552093	9	Lead	< 0.05	µg/m3	SW846 6010B	Filter	11/30/2011
8552092	10	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	12/01/2011
8552092	10	Lead	< 0.05	µg/m3	SW846 6010B	Filter	12/01/2011
8552091	11	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	12/01/2011
8552091	11	Lead	< 0.05	µg/m3	SW846 6010B	Filter	12/01/2011
8552090	12	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	12/01/2011
8552090	12	Lead	< 0.05	µg/m3	SW846 6010B	Filter	12/01/2011
8552089	13	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	12/02/2011
8552089	13	Lead	< 0.05	µg/m3	SW846 6010B	Filter	12/02/2011
8552088	14	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	12/02/2011
8552088	14	Lead	< 0.05	µg/m3	SW846 6010B	Filter	12/02/2011
8552087	15	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	12/02/2011
8552087	15	Lead	< 0.05	µg/m3	SW846 6010B	Filter	12/02/2011
8552080	16	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	12/05/2011
8552080	16	Lead	< 0.05	µg/m3	SW846 6010B	Filter	12/05/2011

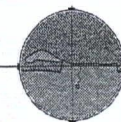
SPECTRA LABORATORIES



Steve Hibbs, Laboratory Manager

a8/scj

CHAIN OF CUSTODY RECORD

POINT
RUSTON5219 N. Shirley St., Suite 100 Tacoma, WA 98407
Phone: 253-752-2185 Fax: 253-752-7083

2011120078

PROJ. NO		PROJECT NAME		NO. OF CONTAINERS		REMARKS													
AIR MONITORING		Pt. Ruston LLC																	
SAMPLERS: (Signature)																			
DATE	STA #	TIME	COMP	GRAB	SAMPLE NUMBER														
11/28/11	S. G		X		8552502	1	X												
11/28/11	OCF VI		X		8552501	1	X												
11/28/11	OCF NW		X		8552100	1	X												
11/29/11	S. G		X		8552099	1	X												
11/29/11	OCF VI		X		8552098	1	X												
11/29/11	OCF NW		X		8552097	1	X												
11/30/11	S.G.		X		8552095	1	X												
11/30/11	OCF VI		X		8552094	1	X												
11/30/11	OCF NW		X		8552093	1	X												
12/1/11	S. G		X		8552092	1	X												
12/1/11	OCF VI		X		8552091	1	X												
12/1/11	OCF NW		X		8552090	1	X												
12/2/11	S. G		X		8552089	1	X												
12/2/11	OCF VI		X		8552088	1	X												
12/2/11	OCF NW		X		8552087	1	X												

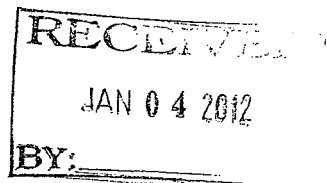
Relinquished (Signature)		Date/Time		Received by: (Signature)		Lab		Shipped via: FedEx, UPS or Other	
		12/5/11 15:27				Spectra		Drop off	
Relinquished (Signature)		Date/Time		Received by: (Signature)		Remarks			
Relinquished (Signature)		Date/Time		Received for Laboratory by: (Signature)		Date/Time		Enclosed:	
								<input type="checkbox"/> Parameter List with DTLs <input type="checkbox"/> Cover Letter	
Split Samples: [] Accepted [] Declined									
Signature									

COCForm - 8/07



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12/30/2011

Point Ruston
5219 N. Shirley St.,
Suite 100
Tacoma, WA 98407

Project: Air Monitoring (hi-vol)
Date Received: 12/12/2011
Spectra Project: 2011120237

<u>Client ID</u>	<u>Spectra #</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>	<u>Matrix</u>	<u>Date Sampled</u>
8552086	1	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	12/05/2011
8552086	1	Lead	< 0.05	µg/m3	SW846 6010B	Filter	12/05/2011
8552085	2	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	12/05/2011
8552085	2	Lead	< 0.05	µg/m3	SW846 6010B	Filter	12/05/2011
8552084	3	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	12/05/2011
8552084	3	Lead	< 0.05	µg/m3	SW846 6010B	Filter	12/05/2011
8552083	4	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	12/06/2011
8552083	4	Lead	< 0.05	µg/m3	SW846 6010B	Filter	12/06/2011
8552082	5	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	12/06/2011
8552082	5	Lead	< 0.05	µg/m3	SW846 6010B	Filter	12/06/2011
8552081	6	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	12/06/2011
8552081	6	Lead	< 0.05	µg/m3	SW846 6010B	Filter	12/06/2011
8552079	7	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	12/07/2011
8552079	7	Lead	< 0.05	µg/m3	SW846 6010B	Filter	12/07/2011
8552078	8	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	12/07/2011
8552078	8	Lead	< 0.05	µg/m3	SW846 6010B	Filter	12/07/2011

SPECTRA LABORATORIES



Steve Hibbs, Laboratory Manager

a8/scj



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12/30/2011

Point Ruston
5219 N. Shirley St.,
Suite 100
Tacoma, WA 98407

Project: Air Monitoring (hi-vol)
Date Received: 12/12/2011
Spectra Project: 2011120237

<u>Client ID</u>	<u>Spectra #</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>	<u>Matrix</u>	<u>Date Sampled</u>
8552077	9	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	12/07/2011
8552077	9	Lead	< 0.05	µg/m3	SW846 6010B	Filter	12/07/2011
8552076	10	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	12/08/2011
8552076	10	Lead	< 0.05	µg/m3	SW846 6010B	Filter	12/08/2011
8552075	11	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	12/08/2011
8552075	11	Lead	< 0.05	µg/m3	SW846 6010B	Filter	12/08/2011
8552074	12	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	12/08/2011
8552074	12	Lead	< 0.05	µg/m3	SW846 6010B	Filter	12/08/2011
8552073	13	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	12/09/2011
8552073	13	Lead	< 0.05	µg/m3	SW846 6010B	Filter	12/09/2011
8552072	14	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	12/09/2011
8552072	14	Lead	< 0.05	µg/m3	SW846 6010B	Filter	12/09/2011
8552071	15	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	12/09/2011
8552071	15	Lead	< 0.05	µg/m3	SW846 6010B	Filter	12/09/2011
8552064	16	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	12/12/2011
8552064	16	Lead	< 0.05	µg/m3	SW846 6010B	Filter	12/12/2011

SPECTRA LABORATORIES



Steve Hibbs, Laboratory Manager

a8/scj

CHAIN OF CUSTODY RECORD

POINT
RUSTON5219 N. Shirley St., Suite 100 Tacoma, WA 98407
Phone: 253-752-2185 Fax: 253-752-7083

7011120137

PROJ. NO		PROJECT NAME		NO. OF CONTAINERS		REMARKS													
AIR monitoring		Pt Ruston LLC (H1-001)																	
SAMPLERS: (Signature)																			
DATE	STA #	TIME	COMP	GRAB	SAMPLE NUMBER														
12/5/11	S.G.		X		8552086	1	X												
12/5/11	OCE-VI		X		8552085	1	X												
12/5/11	OCE-NW		X		8552084	1	X												
12/6/11	S.G.		X		8552083	1	X												
12/6/11	OCE-VI		X		8552082	1	X												
12/6/11	OCE-NW		X		8552081	1	X												
12/7/11	S.G.		X		8552079	1	X												
12/7/11	OCE-VI		X		8552078	1	X												
12/7/11	OCE-NW		X		8552077	1	X												
12/8/11	S.G.		X		8552076	1	X												
12/8/11	OCE-VI		X		8552075	1	X												
12/8/11	OCE-NW		X		8552074	1	X												
12/9/11	S.G.		X		8552073	1	X												
12/9/11	OCE-VI		X		8552072	1	X												
12/9/11	OCE-NW		X		8552071	1	X												
Relinquished (Signature)			Date/Time			Received by: (Signature)			Lab			Shipped via: FedEx, UPS or Other							
			11/12/11 15:21			Jessica Holt			Spectra			Drop off							
Relinquished (Signature)			Date/Time			Received by: (Signature)			Remarks										
Relinquished (Signature)			Date/Time			Received for Laboratory by: (Signature)			Date/Time			Enclosed:							
												<input type="checkbox"/> Parameter List with DTLs <input type="checkbox"/> Cover Letter							
Split Samples:																			
[] Accepted [] Declined																			
Signature																			

2011120237



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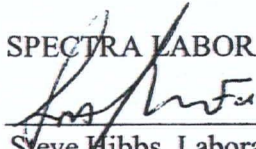
01/12/2012

Point Ruston
5219 N. Shirley St.,
Suite 100
Tacoma, WA 98407

Project: Air Monitoring (hi-vol)
Date Received: 12/19/2011
Spectra Project: 2011120408

<u>Client ID</u>	<u>Spectra #</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>	<u>Matrix</u>	<u>Date Sampled</u>
8552070	1	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	12/12/2011
8552070	1	Lead	< 0.05	µg/m3	SW846 6010B	Filter	12/12/2011
8552069	2	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	12/12/2011
8552069	2	Lead	< 0.05	µg/m3	SW846 6010B	Filter	12/12/2011
8552068	3	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	12/12/2011
8552068	3	Lead	< 0.05	µg/m3	SW846 6010B	Filter	12/12/2011
8552067	4	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	12/13/2011
8552067	4	Lead	< 0.05	µg/m3	SW846 6010B	Filter	12/13/2011
8552066	5	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	12/13/2011
8552066	5	Lead	< 0.05	µg/m3	SW846 6010B	Filter	12/13/2011
8552065	6	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	12/13/2011
8552065	6	Lead	< 0.05	µg/m3	SW846 6010B	Filter	12/13/2011
8552063	7	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	12/14/2011
8552063	7	Lead	< 0.05	µg/m3	SW846 6010B	Filter	12/14/2011
8552062	8	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	12/14/2011
8552062	8	Lead	< 0.05	µg/m3	SW846 6010B	Filter	12/14/2011

SPECTRA LABORATORIES



Steve Hibbs, Laboratory Manager

a8/scj



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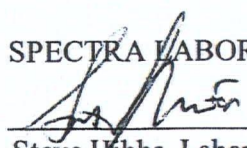
01/12/2012

Point Ruston
5219 N. Shirley St.,
Suite 100
Tacoma, WA 98407

Project: Air Monitoring (hi-vol)
Date Received: 12/19/2011
Spectra Project: 2011120408

<u>Client ID</u>	<u>Spectra #</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>	<u>Matrix</u>	<u>Date Sampled</u>
8552061	9	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	12/14/2011
8552061	9	Lead	< 0.05	µg/m3	SW846 6010B	Filter	12/14/2011
8552060	10	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	12/15/2011
8552060	10	Lead	< 0.05	µg/m3	SW846 6010B	Filter	12/15/2011
8552059	11	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	12/15/2011
8552059	11	Lead	< 0.05	µg/m3	SW846 6010B	Filter	12/15/2011
8552058	12	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	12/15/2011
8552058	12	Lead	< 0.05	µg/m3	SW846 6010B	Filter	12/15/2011
8552057	13	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	12/16/2011
8552057	13	Lead	< 0.05	µg/m3	SW846 6010B	Filter	12/16/2011
8552056	14	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	12/16/2011
8552056	14	Lead	< 0.05	µg/m3	SW846 6010B	Filter	12/16/2011
8552055	15	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	12/16/2011
8552055	15	Lead	< 0.05	µg/m3	SW846 6010B	Filter	12/16/2011
8552048	16	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	12/19/2011
8552048	16	Lead	< 0.05	µg/m3	SW846 6010B	Filter	12/19/2011

SPECTRA LABORATORIES



Steve Hibbs, Laboratory Manager

a8/scj

CHAIN OF CUSTODY RECORD

POINT
RUSTON5219 N. Shirley St., Suite 100 Tacoma, WA 98407
Phone: 253-752-2185 Fax: 253-752-7083

2011120408

PROJ. NO		PROJECT NAME				NO. OF CONTAINERS				REMARKS	
AIR MONITORING		PT Ruston LLC (H1-VOL)									
SAMPLERS: (Signature)											
DATE	STA #	TIME	COMP	GRAB	SAMPLE NUMBER						
12/12/11	S.G.		X		8552070	1	X				
12/12/11	OCF-VI		X		8552069	1	X				
12/12/11	OCF-NW		X		8552068	1	X				
12/13/11	S.G.		X		8552067	1	X				
12/13/11	OCF-VI		X		8552066	1	X				
12/13/11	OCF-NW		X		8552065	1	X				
12/14/11	S.G.		X		8552063	1	X				
12/14/11	OCF-VI		X		8552062	1	X				
12/14/11	OCF-NW		X		8552061	1	X				
12/15/11	S.G.		X		8552060	1	X				
12/15/11	OCF-VI		X		8552059	1	X				
12/15/11	OCF-NW		X		8552058	1	X				
12/16/11	S.G.		X		8552057	1	X				
12/16/11	OCF-VI		X		8552056	1	X				
12/16/11	OCF-NW		X		8552055	1	X				
Relinquished (Signature)		Date/Time		Received by: (Signature)		Lab		Shipped via: FedEx, UPS or Other		Air Bill #	
<i>[Signature]</i>		12/19/11 15123		<i>[Signature]</i>		Spectra		Drop		<i>[Signature]</i>	
Relinquished (Signature)		Date/Time		Received by: (Signature)		Remarks					
Relinquished (Signature)		Date/Time		Received for Laboratory by: (Signature)		Date/Time		Enclosed:			
								<input type="checkbox"/> Parameter List with DTLs <input type="checkbox"/> Cover Letter			
Split Samples: [] Accepted [] Declined											
Signature											

CHAIN OF CUSTODY RECORD

**POINT
RUSTON**5219 N. Shirley St., Suite 100 Tacoma, WA 98407
Phone: 253-752-2185 Fax: 253-752-7083

PROJ. NO		PROJECT NAME		NO. OF CONTAINERS		REMARKS	
AIR MONITORING		Pt. Ruston LLC					
SAMPLERS: (Signature)						As Pb	
DATE	STA #	TIME	COMP	GRAB	SAMPLE NUMBER		
12/19/11	Control				8552048	1	x
12/19/11	H1-VOLUME SAMPLER LOG						
Relinquished (Signature)		Date/Time		Received by: (Signature)		Lab	
12/19/11		15:23		Spectra		Shipped via: FedEx, UPS or Other <u>Drop</u>	
Relinquished (Signature)		Date/Time		Received by: (Signature)		Air Bill # <u>off</u>	
Relinquished (Signature)		Date/Time		Received for Laboratory by: (Signature)		Remarks	
Relinquished (Signature)		Date/Time		Received for Laboratory by: (Signature)		Date/Time	
Relinquished (Signature)		Date/Time		Received for Laboratory by: (Signature)		Enclosed:	
Relinquished (Signature)		Date/Time		Received for Laboratory by: (Signature)		<input type="checkbox"/> Parameter List with DTLs	
Relinquished (Signature)		Date/Time		Received for Laboratory by: (Signature)		<input type="checkbox"/> Cover Letter	
Relinquished (Signature)		Date/Time		Received for Laboratory by: (Signature)		Split Samples:	
Relinquished (Signature)		Date/Time		Received for Laboratory by: (Signature)		[] Accepted [] Declined	
Relinquished (Signature)		Date/Time		Received for Laboratory by: (Signature)		Signature	



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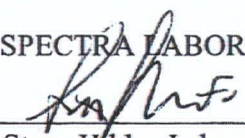
01/12/2012

Point Ruston
5219 N. Shirley St.,
Suite 100
Tacoma, WA 98407

Project: Air Monitoring
Date Received: 12/27/2011
Spectra Project: 2011120531

<u>Client ID</u>	<u>Spectra #</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>	<u>Matrix</u>	<u>Date Sampled</u>
8552054	1	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	12/19/2011
8552054	1	Lead	< 0.05	µg/m3	SW846 6010B	Filter	12/19/2011
8552053	2	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	12/19/2011
8552053	2	Lead	< 0.05	µg/m3	SW846 6010B	Filter	12/19/2011
8552052	3	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	12/19/2011
8552052	3	Lead	< 0.05	µg/m3	SW846 6010B	Filter	12/19/2011
8552051	4	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	12/20/2011
8552051	4	Lead	< 0.05	µg/m3	SW846 6010B	Filter	12/20/2011
8552050	5	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	12/20/2011
8552050	5	Lead	< 0.05	µg/m3	SW846 6010B	Filter	12/20/2011
8552049	6	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	12/20/2011
8552049	6	Lead	< 0.05	µg/m3	SW846 6010B	Filter	12/20/2011
8552047	7	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	12/21/2011
8552047	7	Lead	< 0.05	µg/m3	SW846 6010B	Filter	12/21/2011
8552046	8	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	12/21/2011
8552046	8	Lead	< 0.05	µg/m3	SW846 6010B	Filter	12/21/2011

SPECTRA LABORATORIES



Steve Hibbs, Laboratory Manager
a8/scj



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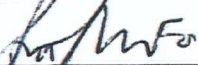
01/12/2012

Point Ruston
5219 N. Shirley St.,
Suite 100
Tacoma, WA 98407

Project: Air Monitoring
Date Received: 12/27/2011
Spectra Project: 2011120531

<u>Client ID</u>	<u>Spectra #</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>	<u>Matrix</u>	<u>Date Sampled</u>
8552045	9	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	12/21/2011
8552045	9	Lead	< 0.05	µg/m3	SW846 6010B	Filter	12/21/2011
8552044	10	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	12/22/2011
8552044	10	Lead	< 0.05	µg/m3	SW846 6010B	Filter	12/22/2011
8552043	11	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	12/22/2011
8552043	11	Lead	< 0.05	µg/m3	SW846 6010B	Filter	12/22/2011
8552042	12	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	12/22/2011
8552042	12	Lead	< 0.05	µg/m3	SW846 6010B	Filter	12/22/2011
8552041	13	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	12/23/2011
8552041	13	Lead	< 0.05	µg/m3	SW846 6010B	Filter	12/23/2011
8552040	14	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	12/23/2011
8552040	14	Lead	< 0.05	µg/m3	SW846 6010B	Filter	12/23/2011
8552039	15	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	12/23/2011
8552039	15	Lead	< 0.05	µg/m3	SW846 6010B	Filter	12/23/2011

SPECTRA LABORATORIES



Steve Hibbs, Laboratory Manager

a8/scj

CHAIN OF CUSTODY RECORD

2011120531

POINT
RUSTON5219 N. Shirley St., Suite 100 Tacoma, WA 98407
Phone: 253-752-2185 Fax: 253-752-7083

PROJ. NO		PROJECT NAME		NO. OF CONTAINERS		REMARKS														
AIR MONITORING		Pt. Ruston LLC (H1-VOL)																		
SAMPLERS: (Signature)																				
DATE	STA #	TIME	COMP	GRAB	SAMPLE NUMBER															
12/19/11	S.G		X		8552054	1	X													
12/19/11	OCF-VI		X		8552053	1	X													
12/19/11	OCF-NW		X		8552052	1	X													
12/20/11	S.G		X		8552051	1	X													
12/20/11	OCF-VI		X		8552050	1	X													
12/20/11	OCF-NW		X		8552049	1	X													
12/21/11	S.G		X		8552047	1	X													
12/21/11	OCF-VI		X		8552046	1	X													
12/21/11	OCF-NW		X		8552045	1	X													
12/22/11	S.G		X		8552044	1	X													
12/22/11	OCF-VI		X		8552043	1	X													
12/22/11	OCF-NW		X		8552042	1	X													
12/23/11	S.G		X		8552041	1	X													
12/23/11	OCF-VI		X		8552040	1	X													
12/23/11	OCF-NW		X		8552039	1	X													
Relinquished (Signature)			Date/Time			Received by: (Signature)			Lab			Shipped via: FedEx, UPS or Other <u>Drop</u>								
<u>[Signature]</u>			12/27/11 15:22			<u>Jessica Holt</u>			Spectra			Air Bill # <u>off</u>								
Relinquished (Signature)			Date/Time			Received by: (Signature)			Remarks											
Relinquished (Signature)			Date/Time			Received for Laboratory by: (Signature)			Date/Time			Enclosed: <input type="checkbox"/> Parameter List with DTLs <input type="checkbox"/> Cover Letter								
Split Samples: [] Accepted [] Declined										Signature										

POINT RUSTON

PROJ. NO		PROJECT NAME						NO. OF CONTAINERS									REMARKS		
<i>AIR MONITORING</i>		<i>Pt-Ruston LLC (H1-V01)</i>																	
SAMPLERS: (Signature) <i>[Signature]</i>																			
DATE	STA #	TIME	COMP	GRAB	SAMPLE NUMBER														
<i>12/27/11</i>					<i>H1 - VOLUME SAMPLER LOG</i>														
Relinquished: (Signature) <i>[Signature]</i>			Date/Time <i>12/27/11 15:22</i>		Received by: (Signature) <i>Jessica Holt</i>			Lab <i>Spectra</i>			Shipped via: FedEx, UPS or Other <i>DROP</i> Air Bill # <i>011</i>								
Relinquished: (Signature)			Date/Time		Received by: (Signature)			Remarks											
Relinquished: (Signature)			Date/Time		Received for Laboratory by: (Signature)			Date/Time			Enclosed: <input type="checkbox"/> Parameter List with DTLs <input type="checkbox"/> Cover Letter								
Split Samples: [] Accepted [] Declined _____ <div style="text-align: right;"><i>Signature</i></div>																			

Table 1. Summary of December 2011 Outfall Data for As, Cu, and Zn Compared to SOW Limit

Location	As Conc. ppm	% of SOW Limit*	Cu Conc. ppm	% of SOW Limit*	Zn Conc. ppm	% of SOW Limit*
South Outfall	0.032	6.30%	0.009	1.76%	0.008	1.63%
OSW2	0.025	4.95%	0.009	1.76%	0.006	1.18%
North Outfall	0.013	2.60%	0.009	1.89%	0.014	2.79%

* 0.5 ppm is the limit of As, Cu, and Zn allowed as documented in the SOW.



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JAN 11 2012

BY: _____

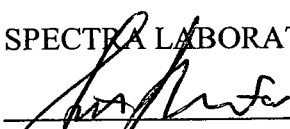
01/09/2012

Point Ruston
5219 N. Shirley St.,
Suite 100
Tacoma, WA 98407

Project: Outfall Samples
Date Received: 01/03/2012
Spectra Project: 2012010035

<u>Client ID</u>	<u>Spectra #</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>	<u>Matrix</u>	<u>Date Sampled</u>
TSM 1211412	1	Arsenic	0.011	mg/L	EPA 200.8	Water	12/12/2011
TSM 1211412	1	Copper	0.0051	mg/L	EPA 200.8	Water	12/12/2011
TSM 1211412	1	Zinc	0.0067	mg/L	EPA 200.8	Water	12/12/2011
TSM 1211212	2	Arsenic	0.022	mg/L	EPA 200.8	Water	12/12/2011
TSM 1211212	2	Copper	0.0075	mg/L	EPA 200.8	Water	12/12/2011
TSM 1211212	2	Zinc	0.0038	mg/L	EPA 200.8	Water	12/12/2011
TSM 11211112	3	Arsenic	0.022	mg/L	EPA 200.8	Water	12/12/2011
TSM 11211112	3	Copper	0.008	mg/L	EPA 200.8	Water	12/12/2011
TSM 11211112	3	Zinc	0.0057	mg/L	EPA 200.8	Water	12/12/2011
TSM 1211419	4	Arsenic	0.012	mg/L	EPA 200.8	Water	12/19/2011
TSM 1211419	4	Copper	0.0071	mg/L	EPA 200.8	Water	12/19/2011
TSM 1211419	4	Zinc	0.015	mg/L	EPA 200.8	Water	12/19/2011
TSM 1211119	5	Arsenic	0.021	mg/L	EPA 200.8	Water	12/19/2011
TSM 1211119	5	Copper	0.0074	mg/L	EPA 200.8	Water	12/19/2011
TSM 1211119	5	Zinc	0.0071	mg/L	EPA 200.8	Water	12/19/2011
TSM 1211219	6	Arsenic	0.021	mg/L	EPA 200.8	Water	12/19/2011
TSM 1211219	6	Copper	0.0067	mg/L	EPA 200.8	Water	12/19/2011
TSM 1211219	6	Zinc	0.0052	mg/L	EPA 200.8	Water	12/19/2011

SPECTRA LABORATORIES



Steve Higgs, Laboratory Manager

a8/scj



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01/09/2012

Point Ruston
5219 N. Shirley St.,
Suite 100
Tacoma, WA 98407

Project: Outfall Samples
Date Received: 01/03/2012
Spectra Project: 2012010035

<u>Client ID</u>	<u>Spectra #</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>	<u>Matrix</u>	<u>Date Sampled</u>
TSM 1211127	7	Arsenic	0.028	mg/L	EPA 200.8	Water	12/27/2011
TSM 1211127	7	Copper	0.0068	mg/L	EPA 200.8	Water	12/27/2011
TSM 1211127	7	Zinc	0.0037	mg/L	EPA 200.8	Water	12/27/2011
TSM 1211427	8	Arsenic	0.011	mg/L	EPA 200.8	Water	12/27/2011
TSM 1211427	8	Copper	0.0046	mg/L	EPA 200.8	Water	12/27/2011
TSM 1211427	8	Zinc	0.011	mg/L	EPA 200.8	Water	12/27/2011
TSM 1211227	9	Arsenic	0.024	mg/L	EPA 200.8	Water	12/27/2011
TSM 1211227	9	Copper	0.009	mg/L	EPA 200.8	Water	12/27/2011
TSM 1211227	9	Zinc	0.0046	mg/L	EPA 200.8	Water	12/27/2011
TSM 011243	10	Arsenic	0.018	mg/L	EPA 200.8	Water	01/03/2012
TSM 011243	10	Copper	0.021	mg/L	EPA 200.8	Water	01/03/2012
TSM 011243	10	Zinc	0.023	mg/L	EPA 200.8	Water	01/03/2012
TSM 011213	11	Arsenic	0.055	mg/L	EPA 200.8	Water	01/03/2012
TSM 011213	11	Copper	0.013	mg/L	EPA 200.8	Water	01/03/2012
TSM 011213	11	Zinc	0.016	mg/L	EPA 200.8	Water	01/03/2012
TSM 011223	12	Arsenic	0.032	mg/L	EPA 200.8	Water	01/03/2012
TSM 011223	12	Copper	0.012	mg/L	EPA 200.8	Water	01/03/2012

SPECTRA LABORATORIES



Steve Hibbs, Laboratory Manager

a8/scj



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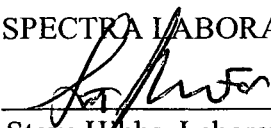
01/09/2012

Point Ruston
5219 N. Shirley St.,
Suite 100
Tacoma, WA 98407

Project: Outfall Samples
Date Received: 01/03/2012
Spectra Project: 2012010035

<u>Client ID</u>	<u>Spectra #</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>	<u>Matrix</u>	<u>Date Sampled</u>
TSM 011223	12	Zinc	0.010	mg/L	EPA 200.8	Water	01/03/2012

SPECTRA LABORATORIES



Steve Hobbs, Laboratory Manager
a8/scj

SPECTRA Laboratories

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January 9, 2012

Point Ruston
5219 N. Shirley St.
Suite 100
Tacoma, WA 98407

Units: ug/L
Spectra Project: 2012010035
Applies to Spectra #'s 1 thru 12

QUALITY CONTROL RESULTS ICP-MS Metals - EPA Method 200.8 - Water

Method Blank

Date Digested: 1/9/2012 Date Analyzed: 1/9/2012

Element	CAS #	Blank Result
Arsenic	7440-38-2	< 0.5
Copper	7440-50-8	< 0.5
Zinc	7440-66-6	< 0.5

Blank Spike (LCS)

Date Digested: 1/9/2012 Date Analyzed: 1/9/2012

Element	Spike Added	LCS Conc.	LCS %Rec
Arsenic	50.0	46.56	93.1
Copper	50.0	48.13	96.3
Zinc	50.0	48.00	96.0

LCS Recovery limits 85-115%

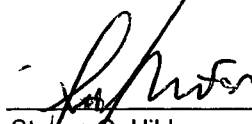
Matrix Spike/Matrix Spike Duplicate (MS/MSD)

Date Digested: 1/9/2012 Date Analyzed: 1/9/2012
Sample Spiked: 2012010035-1

Element	Sample Conc.	Spike Conc.	MS Conc.	MS %Rec	MSD Conc.	MSD %Rec	RPD
Arsenic	11.10	50.0	60.45	98.7	60.58	99.0	0.3
Copper	5.14	50.0	51.85	93.4	51.74	93.2	0.2
Zinc	6.66	50.0	55.24	97.2	54.13	94.9	2.3

Recovery Limits 70-130%
RPD Limit 20

SPECTRA LABORATORIES



Steven G. Hibbs
Laboratory Manager

CHAIN OF CUSTODY RECORD

POINT
RUSTON5219 N. Shirley St., Suite 100 Tacoma, WA 98407
Phone: 253-752-2185 Fax: 253-752-7083

2012010035

PROJ. NO		PROJECT NAME		NO. OF CONTAINERS		REMARKS														
TACOMA Smelter		Out Fall samples (December)																		
SAMPLERS: (Signature)																				
DATE	STA #	TIME	COMP	GRAB	SAMPLE NUMBER															
12/12/11	North	10:45			TSM 1211412	1	X													
12/12/11	OSW-2	10:50			TSM 1211212	1	X													
12/12/11	South	11:00			TSM 1211112	1	X													
12/19/11	North	8:50			TSM 1211419	1	X													
12/19/11	South	9:05			TSM 1211119	1	X													
12/19/11	OSW-2	9:15			TSM 1211219	1	X													
12/27/11	South	10:25			TSM 1211127	1	X													
12/27/11	North	10:45			TSM 1211427	1	X													
12/27/11	OSW-2	11:00			TSM 1211227	1	X													
1/3/12	North	9:30			TSM 011243	1	X													
1/3/12	South	9:40			TSM 011213	1	X													
1/3/12	OSW-2	9:50			TSM 011223	1	X													
Relinquished (Signature)						Date/Time		Received by: (Signature)		Lab		Shipped via: FedEx, UPS or Other								
[Signature]						1/3/12 15:30		[Signature]		Spectra		DROFF								
Relinquished (Signature)						Date/Time		Received by: (Signature)		Remarks										
Relinquished (Signature)						Date/Time		Received for Laboratory by: (Signature)		Date/Time		Enclosed:								
												<input type="checkbox"/> Parameter List with DTLs <input type="checkbox"/> Cover Letter								
Split Samples:										[] Accepted [] Declined										
										Signature										